

Message Text

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ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-07 NSAE-00 TRSE-00 EUR-12

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C O N F I D E N T I A L STATE 051521

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW - IL 1631 - MAGNETIC METALS

REF: COCOM DOC REV (74)1631/1

1) SUB-ITEM (A). US POSITION REMAINS IN OPPOSITION TO DELETION. IN TERMS OF EFFECTIVE COVERAGE, WHAT ARE INVOLVED HERE ARE GRAIN-ORIENTED SILICON STEELS. GRAIN-ORIENTED NICKEL-IRON AND COBALT-IRON ALLOYS ARE COVERED BY (A) BUT ALSO BY (C). FRENCH ARGUED FOR DELETION IN FIRST ROUND ON BASIS SUB-ITEM APPEARED TO EMBARGO NOTHING. HOWEVER, SINCE THE US IS IN FACT PRODUCING GRAIN-ORIENTED SILICON STEELS, FRENCH PROPOSAL WAS BASED ON MISINFORMATION. USE IS ALMOST ENTIRELY MILITARY, IN VARIOUS AEROSPACE ELECTRONIC DEVICES.

2) SUB-ITEM (B). PROBLEM WITH UK APPEARS TO STEM
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FROM DIFFERENT METHODS OF MEASURING QUOTE INITIAL

PERMEABILITY UNQUOTE. THE US MEASURES AT GREEK LETTER MU SUBSCRIPT ZERO (I.E., AS MAGNETIC FORCE IS REDUCED TO ZERO), IN ACCORDANCE WITH ASTM A-596. ON THE OTHER HAND, TELCON BROCHURE PROVIDED BY UK DEL SHOWS THE 140,000 FIGURE FOR SUPER MUMETAL TO BE AT GREEK LETTER MU, SUBSCRIPT FOUR, MADE AT A MAGNETIZING FORCE OF 0.4 AMPERE-TURNS PER METER. OUR EXPERTS ARE UNABLE TO CONVERT THE MU FOUR FIGURE INTO A MU ZERO EQUIVALENT BUT ARE CONVINCED THAT IT WOULD BE BELOW THE 120,000 FIGURE CURRENTLY BEING PROPOSED BY THE U.S. TELCON PREFERENCE FOR MU FOUR MAY POSSIBLY BE INFLUENCED BY A STUDY ON MAGNETICS TERMINOLOGY RECENTLY CONDUCTED BY TECHNICAL COMMITTEE NO. 68 OF THE INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC). SINCE THIS STUDY IS NOT YET FORMALLY RELEASED, IT IS NOT YET CLEAR WHAT INFLUENCE IT WILL HAVE ON FUTURE COMMERCIAL STANDARDS OF MEASUREMENT.

3) DEL SHOULD MAINTAIN POSITION FOR 120,000 GAUSS-OERSTEDS BUT IS AUTHORIZED TO GO TO 125,000 GAUSS-OERSTEDS ON MU ZERO BASIS IF NECESSARY TO REACH AGREEMENT, AND TO ACCEPT ANY MUTUALLY AGREEABLE STANDARD FOR THE MEASUREMENT OF QUOTE INITIAL PERMEABILITY UNQUOTE PROVIDED THE RESULTING FIGURE IS NO HIGHER THAN THE ABOVE ON AN EQUIVALENT BASIS.

4) DURING STUDY OF THE ABOVE BY EXPERTS, AN ADDITIONAL PROBLEM CAME TO LIGHT, NAMELY, FEW OF THE MATERIALS CURRENTLY SOLD HAVE BEEN FACTORY-ANNEALED TO DEVELOP THEIR MAXIMUM CAPABILITY FOR INITIAL PERMEABILITY, WHICH IS A FUNCTION OF THE TIME/TEMPERATURE CHARACTERISTICS OF THE ANNEALING PROCESS. THEREFORE, TO ELIMINATE AN EVIDENT LOOPHOLE IN THE EMBARGO, DEL IS REQUESTED TO PROPOSE THAT (B) BE REWORDED TO READ QUOTE HAVING A COMPOSITION CAPABLE OF DEVELOPING AN INITIAL PERMEABILITY (MU ZERO) OF -- GAUSS-OERSTEDS OR OVER UNQUOTE.

5) SUB-ITEM (C). THE SAME PROBLEM EXISTS HERE SINCE HIGH REMANENCE IS ALSO DEVELOPED BY APPROPRIATE HEAT TREATMENT. (C) SHOULD THEREFORE ALSO BE REDRAFTED TO READ CONFIDENTIAL

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QUOTE HAVING A COMPOSITION CAPABLE OF DEVELOPING A REMANENCE ETC. UNQUOTE.

6) TO BACK UP THE ABOVE, A CASE RECENTLY CAME TO LIGHT OF A US EXPORT IN WHICH THE AS-SHIPPED MATERIAL HAD AN INITIAL PERMEABILITY OF LESS THAN 70,000 GAUSS-OERSTEDS BUT HAD A CAPABILITY IF FULLY ANNEALED OF DEVELOPING AN INITIAL PERMEABILITY ABOVE 100,000. (FOR DEL'S

INFORMATION, THIS SHIPMENT WAS MADE BY INFOMAG.) INGERSOLL

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